

PATENT APPLICATION

**RESPONSE UNDER 37 CFR §1.116
EXPEDITED PROCEDURE
TECHNOLOGY CENTER ART UNIT 1791**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Markku MANTYLA

Group Art Unit: 1791

Application No.: 10/509,878

Examiner: G. KOCH

Filed: December 3, 2004

Docket No.: 121344

For: METHOD AND APPARATUS FOR MEASURING AMOUNT OF COATING ON
PAPER WEB

REQUEST FOR RECONSIDERATION AFTER FINAL REJECTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In reply to the December 13, 2007 Office Action, the period for reply being extended by the attached Petition for Extension of Time, reconsideration of the rejections is respectfully requested in light of the following remarks. Claims 21-40 are pending in this application.

Claims 21, 22, 27-31 and 36-40 are rejected under 35 U.S.C. §103(a) over Kustermann (U.S. Patent No. 6,248,174) in view of Griech et al. (U.S. Patent No. 6,521,089); claims 23-25, 28, 32-34 and 37 are rejected under 35 U.S.C. §103(a) over Kustermann in view of Griech and in further view of Belotserkovsky (U.S. Patent No. 6,183,561); claims 21-24, 26-34 and 36-40 are rejected under 35 U.S.C. §103(a) over Belotserkovsky in view of Griech and in further view of Kustermann; and claims 26 and 35 are rejected under

35 U.S.C. §103(a) over either Kustermann and Griech, or Belotserkovsky and Workman (U.S. Patent No. 6,452,679). The rejections are respectfully traversed.

Kustermann, Griech, Belotserkovsky and Workman, alone or in a permissible combination, do not teach or suggest every claimed feature of independent claims 21 and 30. Kustermann, Griech, Belotserkovsky and Workman do not teach or suggest measuring a composition of a coating to be transferred to the paper web by determining at least one of an amount of at least one component in the coating to be transferred to the paper web and a ratio of two or more components in the coating to be transferred to the paper web, as recited in independent claim 21; and a second measuring device arranged to measure a composition of a coating to be transferred to the paper web, the composition being at least one of an amount of at least one component in the coating to be transferred to the paper web and a ratio of two or more components in the coating to be transferred to the paper web, as recited in independent claim 30 (emphasis added).

Griech does not teach or suggest the above feature. Griech merely relates to a process for controlling or regulating the basis weight of a web in a web manufacturing process (see Abstract of Griech). The device of Griech adjusts two actuators 11, 12 via a first control circuit I based on the basis weight measured by the basis weight sensor 7 (see col. 7, line 58 - col. 8, line 4 of Griech). By this adjustment, influence can be exerted on the concentration of the total stock suspension supplied to the head box 1 and thus the basis weight of the finished paper web 5' can be kept constant in the desired manner (see col. 7, line 58 - col. 8, line 4 of Griech). Therefore, the control circuit I does not relate to measuring a component of the coating to be transferred to the paper web, as recited in independent claims 21 and 30.

The subordinate control circuit II also does not relate to a coating to be transferred to a paper web. This control circuit II merely relates to measuring a concentration of incoming backwater with a concentration sensor 10 (see Figs. 2-4 of Griech).

In other words, Griech merely relates to controlling the total stock suspension (control circuit I) or measuring a concentration of incoming backwater (control circuit II). Griech does not teach or suggest measuring a composition of a coating to be transferred to the paper web, or a ratio of two or more components in the coating to be transferred to the paper web, as recited in independent claims 21 and 30, respectively.

Kustermann, Belotserkovsky and Workman do not remedy Griech's deficiencies. The Office Action acknowledges on pages 3 and 8, respectively, that Kustermann and Belotserkovsky do not teach or suggest the above features. Workman is applied by the Office Action only for its alleged teaching of infrared and raman spectroscopy techniques in monitoring the composition of a coating that is applied to the web (see Office Action, page 14).

Further, the process disclosed in Griech relates to controlling or regulating the total weight of a web (see Abstract of Griech). As acknowledged by the Office Action on page 3, Kustermann also relates to monitoring total flow quantity, not individual components of the coating or ratios thereof. Therefore, neither Griech nor Kustermann teach or suggest determining an amount of the coating on the paper web on a basis of the amount of at least one component in the coating to be transferred to the paper web, as recited in independent claims 21 and 30.

Therefore, for at least these reasons, independent claims 21 and 30 are patentable over each of the above-applied references. Claims 22-29 and 31-40, which respectively depend from independent claims 21 and 30, are also patentable for at least their dependency on independent claims 21 and 30, as well as for the additional features they recite. Applicant thus respectfully requests withdrawal of the rejections.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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Attachments:
Petition for Extension of Time

Date: April 11, 2008

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